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APPLICATION NO. FILING DATE		LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/049,610 06/06/2002		06/06/2002	Julie C. Double	P 0284989	4555
909	7590	04/09/2004		EXAMINER	
		HROP, LLP	SCHILLING, RICHARD L		
P.O. BOX 10500 MCLEAN, VA 22102				ART UNIT	PAPER NUMBER
•				1752	
			•	DATE MAILED: 04/09/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.		
	PLScho	Group Art Unit	
-Th MAILING DATE of this communication appears	s on the cover shee	et beneath the correspondence address	ș-
Period for Reply			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET T OF THIS COMMUNICATION.	O EXPIRE3_	MONTH(S) FROM THE MAILING	DATE
 Extensions of time may be available under the provisions of 37 CFR from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, a r If NO period for reply is specified above, such period shall, by defau Failure to reply within the set or extended period for reply will, by sta Any reply received by the Office later than three months after the matern adjustment. See 37 CFR 1.704(b). 	eply within the statutory It, expire SIX (6) MONTH tute, cause the applicat	y minimum of thirty (30) days will be considered t IS from the mailing date of this communication. tion to become ABANDONED (35 U.S.C. § 133).	imely.
Status			
☐ Responsive to communication(s) filed on			
☐ This action is FINAL.			
 Since this application is in condition for allowance except accordance with the practice under Ex parte Quayle, 193 	t for formal matters, 5 C.D. 1 1; 453 O.G.	prosecution as to the merits is closed 213.	in
Disposition of Claims			
☑ Claim(s) /- → /		is/are pending in the applicatio	n.
Of the above claim(s)		is/are withdrawn from consider	ration.
□ Claim(s)		is/are allowed.	
(s) 1-20		is/are rejected.	
□ Claim(s)		is/are objected to.	
□ Claim(s)			ction
Application Papers		requirement	
☐ The proposed drawing correction, filed on	• •	• •	
☐ The drawing(s) filed on is/are object	ted to by the Exami	ner	
☐ The specification is objected to by the Examiner.	•		
☐ The oath or declaration is objected to by the Examiner.			
Pri rity under 35 U.S.C. § 119 (a)-(d)			
Acknowledgement is made of a claim for foreign priority to	under 35 U.S.C. § 11	9 (a)(d).	
☐ All ☐ Some* ☐ None of the:			
Certified copies of the priority documents have been r			
☐ Certified copies of the priority documents have been r			
☐ Copies of the certified copies of the priority document			
in this national stage application from the Internationa *Certified copies not received:		· · ·	
		·	
Atta hment(s)			
Information Disclosure Statement(s), PTO-1449, Paper No.	o(s). <u> </u>	☐ Interview Summary, PTO-413	
Notice of Reference(s) Cited, PTO-892		□ Notice of Informal Pat nt Application, I	PTO-152
☐ Notice of Draftsperson's Pat nt Drawing Review, PTO-94	8	□ Oth r	
Office A	ction Summary		

U.S. Patent and Trademark Office PTO-326 (Rev. 11/00)

Part of Paper No.

Serial No. 10/049,610

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Art Unit

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. § 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -(b) the invention was patented or described in a
printed publication in this or a foreign country or in
public use or on sale in this country, more than one
year prior to the date of application for patent in the
United States.

The following is a quotation of 35 U.S.C. § 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-20 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over European Patent Publication 917964. The European patent publication (see particularly page 3, lines 3-40; page 4, lines 1-11 and lines 34-59; page 6, lines 36-41; page 11, lines 35-44; page 13, lines 5-26; page 15, lines 30-46; page 8, lines 41-51; Figure 5) discloses thermal transfer elements comprising

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supports and thermally transferable protective layers comprising polycarbonates with glass transition temperatures greater than 75°C and molecular weights of 5000 to 100,000. If the European patent publication does not anticipate the instant claims, then it would at least be obvious to one skilled in the art to use polycarbonates with molecular weights of the lower end of the molecular weight range disclosed in the European patent publication. The European patent publication also discloses UV absorbers, backing layers and subcoats.

The comparisons in the specification are noted but are unconvincing as to patentability since they are not commensurate in scope with the claimed subject matter. The polyesters used in the Examples are two specific hydroxyl terminated polyester resins while the instant claims include all polyesters with the required glass transition temperatures and molecular weights including polyesters of carbonic acids, i.e. polycarbonates.

2. Claims 1-3, 5, 6, 8-10, 12, 14, 15, 17 and 18 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Hashimoto et al. '375. Hashimoto et al. '375 (see particularly column 2, lines 36-55; column 3, line 39 - column 4, line 7; column 9, lines 1-30; column 10, lines 35-68; Example 1) discloses thermal transfer elements comprising supports and thermally transferable

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layers comprising polyester with glass transition temperatures greater than 40°C and molecular weights less than 10,000. The instant claims do not exclude pigments or colorants from the polyester transfer layers. In regard to instant claim 6, carbon black of Hashimoto et al. is a UV absorber. If Hashimoto et al. do not anticipate the instant claims, then it would at least be obvious to one skilled in the art to use polyesters in Hashimoto et al. with preferred molecular weights less than 10,000 and glass transition temperatures in the preferred range of about 50 to 80°C. In Example 1, the polyester has a molecular weight of about 10,000 and a glass transition temperature of about 50.

3. Claims 1-10, 12, 14, 15 and 17-18 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Shimomine et al. Shimomine et al. (see particularly column 4, lines 25-68; Example 5) discloses heat transfer elements with supports and heat transferable polyester layers with molecular weights of 5000 to 20,000 and glass transition temperatures of 45 to 80°C. In Example 5, the polyester has a molecular weight of 7000 and a glass transition temperature of 52. In regard to instant claim 6, carbon black absorbs UV radiation. If Shimomine et al. do not anticipate the instant claims, then it would at least be obvious to one skilled in the art to use polyesters with molecular weights at the lower

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end of the disclosed range as in Example 5 and glass transition temperatures above 50°C within the range of 45-80°C disclosed in Shimomine et al.

- 4. The prior art submitted by applicants has been considered. Hashimoto et al. '502 is cited of interest in the art as being substantially cumulative to Hashimoto et al. '375. Adkins et al. is cited of interest in the art as disclosing thermally transferable layers comprising polyesters. Tanaka et al. (Example 2) is cited of interest in the art as disclosing thermal transfer layers with polyesters. Stito et al. is cited of interest in the art as disclosing thermal transfer elements with thermally transferable protective layers comprising polyesters with molecular weight ranges and glass transition temperature ranges set forth in the instant claims. Applicants's foreign priority date is prior to the filing date of Stito.
- 5. Any inquiry concerning this communication should be directed to Mr. Schilling at telephone number (571) 272-1335.

RLSchilling:cdc

April 1, 2004

RICHARD L. SCHILLING
PRIMARY EXAMINER
CROUP4400: 17

GROUP 4100 /7 /2